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1 [An integrated color-spatial approach to content-based image retrieval](#)

Wynne Hsu, S. T. Chua, H. H. Pung

 January 1995 **Proceedings of the third ACM international conference on Multimedia**

 Full text available: [htm\(38.02 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
Keywords: color retrieval, content-based retrieval, image segmentation, spatial retrieval

2 [Fast image retrieval using color-spatial information](#)

Beng Chin Ooi, Kian-Lee Tan, Tat Seng Chua, Wynne Hsu

 May 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 2

 Full text available: [pdf\(426.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

In this paper, we present an image retrieval system that employs both the color and spatial information of images to facilitate the retrieval process. The basic unit used in our technique is a *single-colored cluster*, which bounds a homogeneous region of that color in an image. Two clusters from two images are similar if they are of the same color and overlap in the image space. The number of clusters that can be extracted from an image can be very large, and it affects the accuracy of ret ...

Keywords: Color-spatial information, Content-based retrieval, Sequenced multi-attribute tree, Single-colored cluster

3 [Image Retrieval: Support vector machine active learning for image retrieval](#)

Simon Tong, Edward Chang

 October 2001 **Proceedings of the ninth ACM international conference on Multimedia**

 Full text available: [pdf\(1.57 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Relevance feedback is often a critical component when designing image databases. With these databases it is difficult to specify queries directly and explicitly. Relevance feedback interactively determines a user's desired output or *query concept* by asking the user whether certain proposed images are relevant or not. For a relevance feedback algorithm to be effective, it must grasp a user's query concept accurately and quickly, while also only asking the user to label a small number of ...

Keywords: active learning, image retrieval, query concept, relevance feedback, support vector machines

4 Image Retrieval from the World Wide Web: Issues, Techniques, and Systems

M. L. Kherfi, D. Ziou, A. Bernardi

March 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 1

Full text available:  [pdf\(294.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a difficult task, whether the information is textual or visual. Text search engines have existed for some years now and have achieved a certain degree of success. However, despite the large number of images available on the Web, image search engines are still rare. In this article, we show that in order to allow people to profi ...

Keywords: Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

5 WALRUS: a similarity retrieval algorithm for image databases

Apostol Natsev, Rajeev Rastogi, Kyuseok Shim

June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data**, Volume 28 Issue 2


Full text available:  [pdf\(1.63 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Traditional approaches for content-based image querying typically compute a single signature for each image based on color histograms, texture, wavelet tranforms etc., and return as the query result, images whose signatures are closest to the signature of the query image. Therefore, most traditional methods break down when images contain similar objects that are scaled differently or at different locations, or only certain regions of the image match. In this page ...

6 Keyblock: an approach for content-based image retrieval

Lei Zhu, Aidong Zhang, Aibing Rao, Rohini Srihari

October 2000 **Proceedings of the eighth ACM international conference on Multimedia**


Full text available:  [pdf\(833.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose a new framework termed *Keyblock* for content-based image retrieval, which is a generalization of the text-based information retrieval technology in the image domain. In this framework, methods for extracting comprehensive image features are provided, which are based on the frequency of representative blocks, termed keyblocks, of the image database. Keyblocks, which are analogous to index terms in text document retrieval, can be constructed by exploiting the vector quantizatio ...

7 IRM: integrated region matching for image retrieval

Jia Li, James Z. Wang, Gio Wiederhold

October 2000 **Proceedings of the eighth ACM international conference on Multimedia**


Full text available:  [pdf\(934.09 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Content-based image retrieval using region segmentation has been an active research area. We present IRM (Integrated Region Matching), a novel similarity measure for region-based image similarity comparison. The targeted image retrieval systems represent an image by a

set of regions, roughly corresponding to objects, which are characterized by features reflecting color, texture, shape, and location properties. The IRM measure for evaluating overall similarity between images incorporates prope ...

8 Theory of keyblock-based image retrieval

April 2002 **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 2

Full text available:  pdf(2.14 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)


The success of text-based retrieval motivates us to investigate analogous techniques which can support the querying and browsing of image data. However, images differ significantly from text both syntactically and semantically in their mode of representing and expressing information. Thus, the generalization of information retrieval from the text domain to the image domain is non-trivial. This paper presents a framework for information retrieval in the image domain which supports content-based q ...

Keywords: clustering, codebook, content-based image retrieval, keyblock

9 Posters and Short Papers: Subband image segmentation using VQ for content-based image retrieval

Junchul Chun, George Stockman

October 2001 **Proceedings of the ninth ACM international conference on Multimedia**

Full text available:  pdf(1.07 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Retrieving images from a large image dataset using image content as a key is an important issue. In this paper, we present a new content-based image retrieval approach using a Wavelet transform and subband image segmentation. For the image retrieval, we first decompose the image using a Wavelet transform and adopt vector a quantization(VQ) algorithm to perform automatic segmentation based on image features such as color and texture. The wavelet transform decomposes the image into 4 subbands(LL,L ...

Keywords: content-based retrieval, image segmentation, vector quantization, wavelet transform

10 On "shapes" of colors for content-based image retrieval

Renato O. Stehling, Mario A. Nascimento, Alexandre X. Falcão

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**

Full text available:  pdf(461.57 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Color is a commonly used feature for realizing content-based image retrieval (CBIR). Towards this goal, this paper presents a new approach for CBIR which is based on well known and widely used color histograms. Contrasting to previous approaches, such as using a single color histogram for the whole image, or local color histograms for a fixed number of image cells, the one we propose (named Color Shape) uses a variable number of histograms, depending only on the actual number of colors presen ...

Keywords: histograms, image databases, image metadata, image similarity retrieval

11 Technical session 15: WWW image retrieval: A bootstrapping framework for annotating and retrieving WWW images

Huamin Feng, Rui Shi, Tat-Seng Chua

October 2004 **Proceedings of the 12th annual ACM international conference on**

10/040,621

	Type	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Error Ref #
1	BRS	4	wo-200045337-\$.did. wo-200046748-\$.did. wo-200065839-\$.did. wo-200070881-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 14:19			S1
2	BRS	0	(wo-200045337-\$.did. wo-200046748-\$.did. wo-200065839-\$.did. wo-200070881-\$.did.) and ((image near3 retriev\$3) with (color texture) same (percept\$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/05 16:28			S3
3	BRS	0	(wo-200045337-\$.did. wo-200046748-\$.did. wo-200065839-\$.did. wo-200070881-\$.did.) and (image near3 retriev\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/05 16:28			S4
4	BRS	8	((image near3 retriev\$3) with (color texture) same (percept\$6)) and @ad<"20010109"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/05 16:29			S5
5	BRS	2	("6192150" "6381365").PN.	USPAT	2004/11/05 16:36			S6
6	BRS	0	"6624821".URPN.	USPAT	2004/11/05 16:37			S7
7	BRS	0	"200046748".URPN.	USPAT	2004/11/05 16:39			S8
8	BRS	23	murakawa-a.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/08 10:06			S9
9	IS&R	4	("6463432").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2004/11/08 10:06			S10
10	BRS	13	tanaka-sumiyo.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/08 13:08			S11
11	BRS	13	tanaka-sumiyo.in. and @ad<"20010109"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/08 13:39			S12

	Type	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Error Ref #
12	BRS	0	(region near3 label\$4) with (texture near3 extract\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/08 13:38			S13
13	BRS	57	(region) with (texture near3 extract\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/08 13:43			S14
14	BRS	35	((region) with (texture near3 extract\$3)) and @ad<"20010109"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/08 14:41			S15
15	BRS	47	(partition\$3 grid block) with (texture near3 extract\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/08 13:49			S16
16	BRS	46	(grid block) with (texture near3 extract\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/08 13:49			S17
17	BRS	30	((grid block) with (texture near3 extract\$3)) and @ad<"20010109"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/08 14:20			S18
18	BRS	1	"05028266".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/08 14:20			S19
19	BRS	353	tsuchiya-t.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/08 14:42			S20
20	BRS	62	tsuchiya-tetsuo.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/08 14:42			S21
21	BRS	19	(region area segment portion part block) with (representative adj1 colo\$1r) with (pixel near3 (count number percentage))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 08:43			S26

	Type	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Ref #
22	BRS	13	S26 and @ad<"20020109"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 11:51			S27
23	BRS	5	(cluster) with (representative adj1 colo\$1r) with (pixel near3 (count number percentage))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 08:43			S28
24	BRS	28	(image near3 retriev\$3) with (color texture) same (percept\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 09:50			S29
25	BRS	0	(seed with (grow\$3 expand\$3) with ((inscribed enclosed bounded) adj1 (rectangle block square)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 11:53			S30
26	BRS	0	(seed with (grow\$3 expand\$3) with ((inscribed enclosed bounded) near3 (rectangle block square)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 11:53			S31
27	BRS	38	((grow\$3 expand\$3) with ((inscribed enclosed bounded) near3 (rectangle block square)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 12:10			S32
28	BRS	27	S32 and @ad<"20010109"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 12:15			S33
29	BRS	570	(texture with (fit\$4 generat\$3 produc\$4 creat\$3 obtain\$3) with (wrap\$4 mirror\$3 til\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 12:39			S34
30	BRS	152	(texture with (fit\$4 generat\$3) with (wrap\$4 mirror\$3 til\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 12:40			S35
31	BRS	99	S35 and @ad<"20010109"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 12:42			S36

	Type	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Error Ref #
32	BRS	45	(texture with (fit\$4 generat\$3) with (wrap\$4 mirror\$3 tiling))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 12:41			S38
33	BRS	31	S38 and @ad<"20010109"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 12:42			S39
34	BRS	7954	(partition\$3 block\$3 divid\$3 grid) with ((circumscrib\$3 enclos\$3) near\$3 (rectangle block))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 14:21			S40
35	BRS	0	(partition\$3 divid\$3) with ((circumscrib\$3 enclos\$3) adj1 (rectangle))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 15:25			S41
36	BRS	132	(partition\$3 divid\$3) with ((circumscrib\$3 enclos\$3) adj1 (rectangle))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 14:29			S42
37	BRS	0	S42 same texture	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 14:22			S43
38	BRS	0	S42 same grid	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 14:23			S44
39	BRS	3	S42 same map	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 14:32			S46
40	BRS	106	S42 and @ad<"20010109"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 15:35			S50
41	BRS	9780	(texture near\$3 (extract\$3 obtain\$3 acquir\$3 determin\$5 deriv\$3 calculat\$3 comput\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 15:25			S51

	Type	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Ref #
42	BRS	1547	((circumscribing enclosing bounding) adj1 (rectangle block))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 15:27			S52
43	BRS	4	S51 same S52	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 15:34			S53
44	BRS	42	S52 same grid	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 15:51			S54
45	BRS	27	S52 with grid	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 15:35			S55
46	BRS	18	S55 and @ad<"20010109"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 10:54			S56
47	BRS	6	"740295".ap.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/10 15:49			S58
48	BRS	369	(weight\$3 with entropy)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 11:11			S59
49	BRS	1	S59 with similarity	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 10:56			S60
50	BRS	23	S59 same (distance similarity)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 10:57			S61
51	BRS	8	S61 and @ad<"20010109"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 11:11			S62

	Type	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Error Ref #
52	BRS	37	(entropy adj1 weights3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 11:11			S63
53	BRS	15	S63 and @ad<"20010109"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 12:18			S64
54	BRS	314	(Gaussian near3 normali\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 12:50			S65
55	BRS	100	((((feature color texture) near3 distance) with normali\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 12:30			S69
56	BRS	1	((((feature color texture) near3 distance) with normali\$6 with Gaussian)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 12:31			S71
57	BRS	1	((((feature color texture) near3 distance) with normali\$6 same Gaussian)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 12:31			S72
58	BRS	27	(distance with normali\$6 with Gaussian)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 12:32			S73
59	BRS	18	(distance with normali\$6 with Gaussian) and @ad<"20010109"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 13:03			S74
60	BRS	656	(normaliz\$6 with (mean mu) with (deviation std sigma))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 12:53			S75
61	BRS	24	(normaliz\$6 with (mean mu) with (deviation std sigma)) with Gaussian	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 12:53			S77

	Type	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Error Ref #
62	BRS	1	(distance with "Gaussian normalization")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 13:03			S78
63	BRS	5	("Gaussian normalization")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 15:03			S80
64	BRS	310	((largest adj1 distance) farthest) with (grow\$3 expand\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 15:17			S81
65	BRS	1	((largest adj1 distance) farthest) with (grow\$3 expand\$3) with ((maxim\$2 largest) adj1 (region area rectangle block))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 15:06			S82
66	BRS	93	((largest adj1 distance) farthest) with (grow\$3 expand\$3) with (region area rectangle block)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 15:06			S83
67	BRS	21	((largest adj1 distance) farthest) with (grow\$3 expand\$3) with (region area rectangle block)) and @ad<"20010109"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 15:13			S84
68	BRS	1740	((seed ((interior inside) adj1 (point pixel)))) with (grow\$3 expand\$3) with (region rectangle)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 15:15			S85
69	BRS	1739	(seed with (grow\$3 expand\$3) with (region rectangle))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 15:16			S86
70	BRS	10	(seed with (grow\$3) with rectangle)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 15:17			S88
71	BRS	1693	(seed with (grow\$3) with region)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 15:17			S89

	Type	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Error Ref #
72	BRS	68	((largest adj1 distance) farthest) with (grow\$3 expand\$3) with (rectangle block)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 15:29			S91
73	BRS	1952	(distance adj1 (map conver\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 15:22			S93
74	BRS	306	(distance adj1 conversion)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 15:23			S94
75	BRS	28	382/100-300.ccls. and (distance adj1 conversion)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 15:23			S95
76	BRS	84	(distance near3 (map conver\$4)) with (grow\$3 expand\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 15:33			S96
77	BRS	61	((distance near3 (map conver\$4)) with (grow\$3 expand\$3)) AND @AD<"20010109"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 16:04			S97
78	BRS	1243	(bounded with (region near3 grow\$3 expand\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 16:05			S98
79	BRS	94	(bounded with (region near3 (grow\$3 expand\$4)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 16:06			S99
80	BRS	2	(bounded with (rectangle near3 (grow\$3 expand\$4)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 16:06			S100
81	BRS	68	(bounded with (region near3 (grow\$3 expand\$4))) and @ad<"20010109"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/12 16:07			S101

	Type	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Error	Ref #
82	BRS	5120	348/582;707/6;382/164,165,190,195,257-260,279,305.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	2004/11/15 11:55				S102